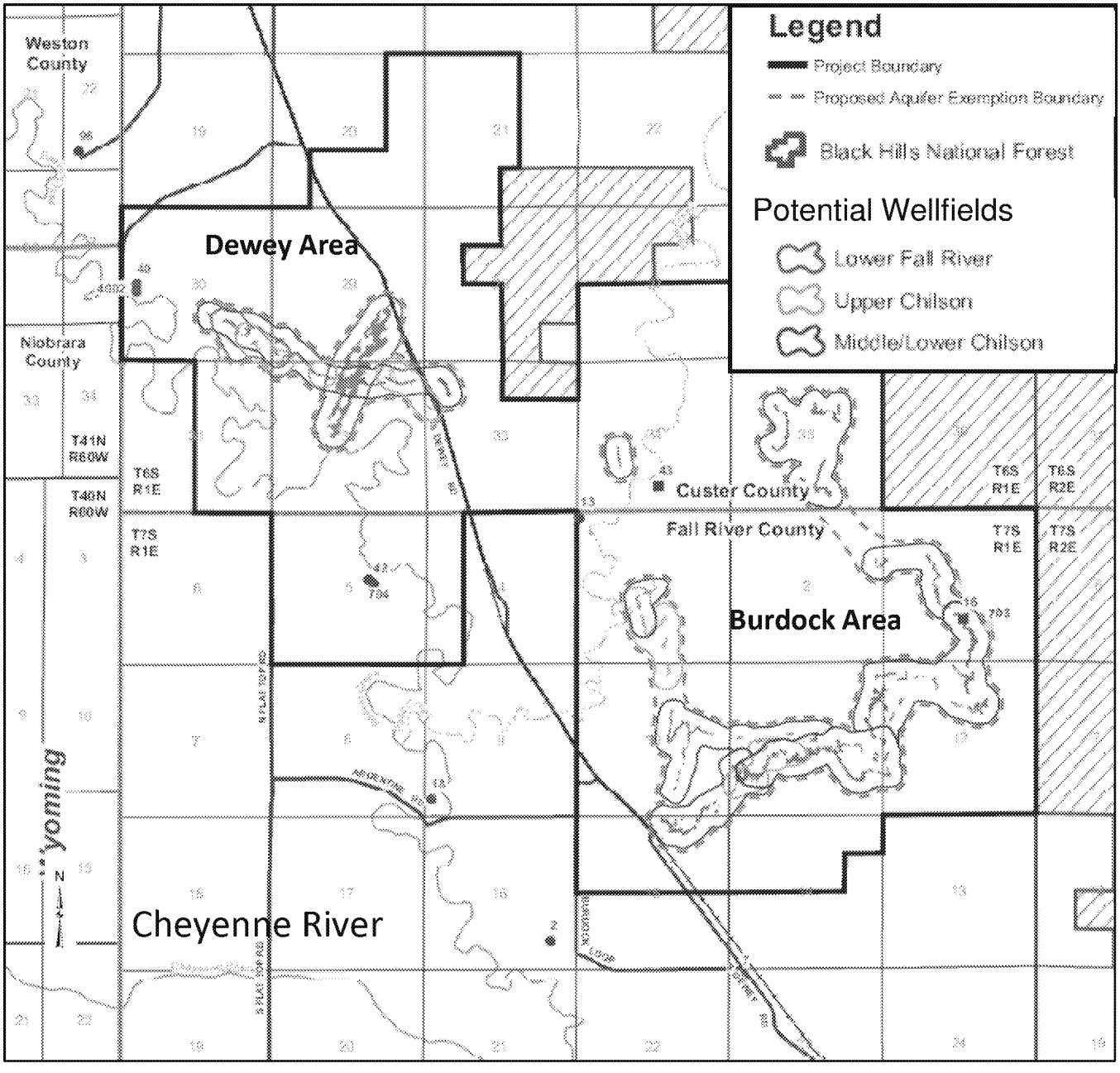
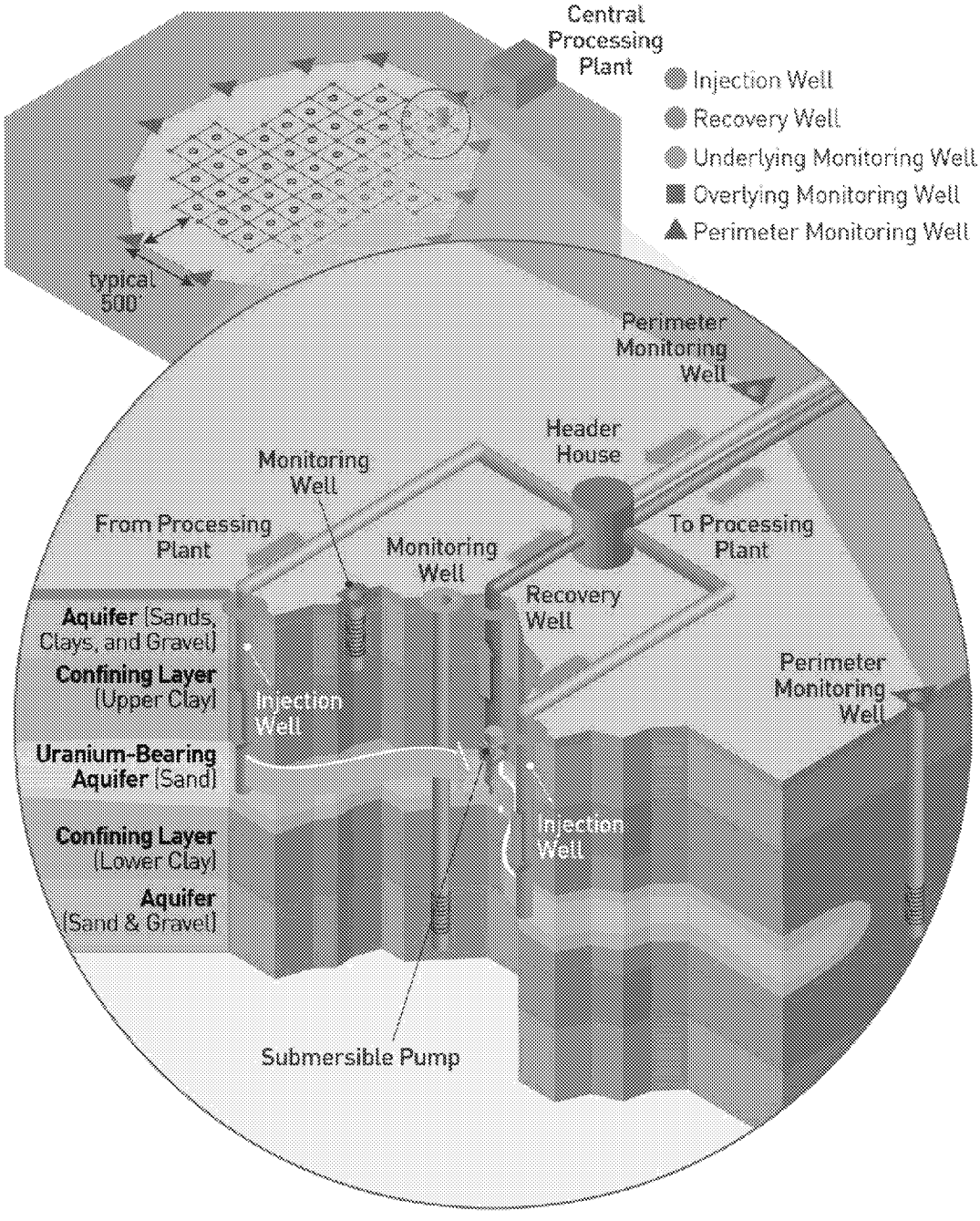
Dewey Burdock Proposed ISR Wellfields



The In Situ Uranium Recovery Process

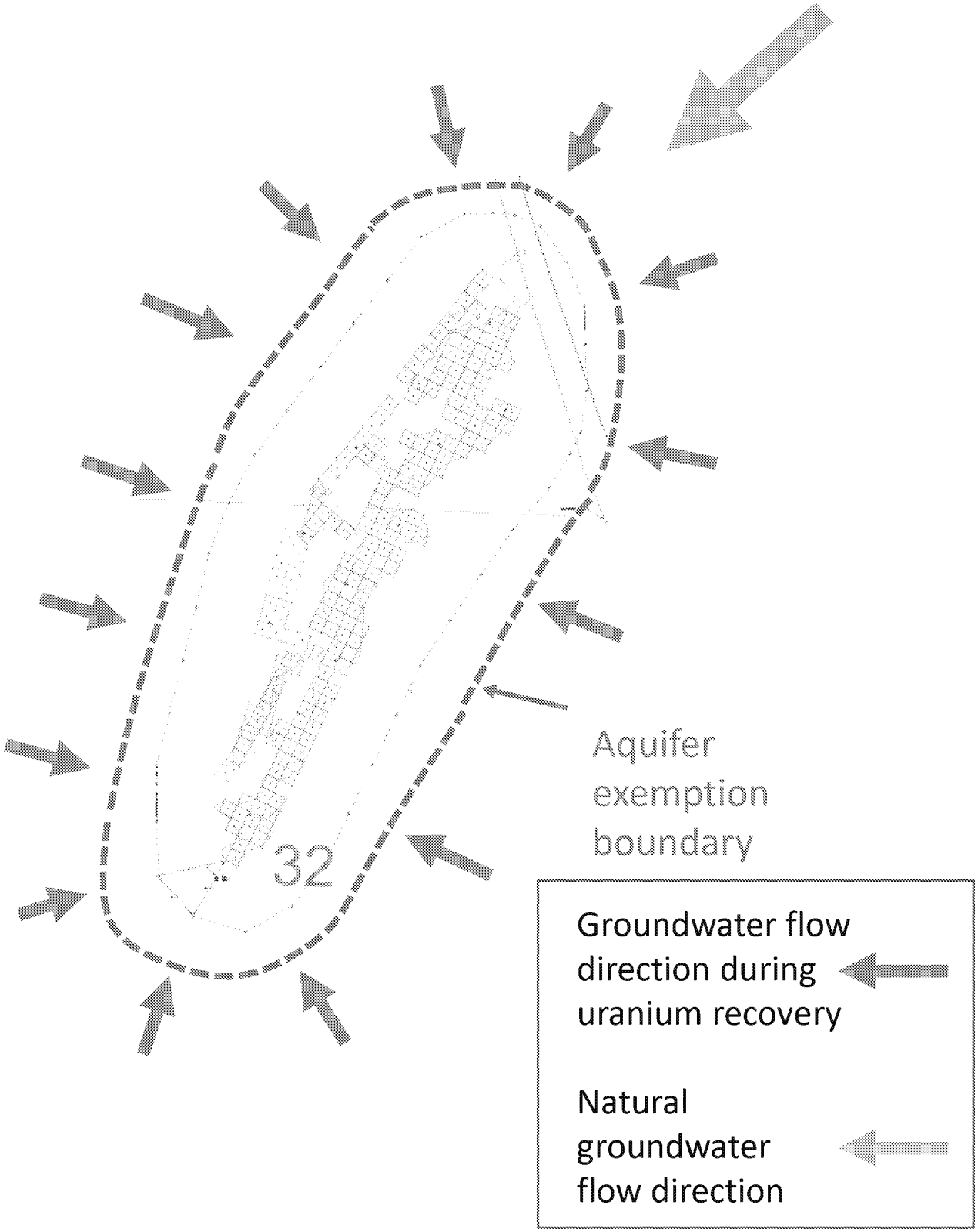


Injection wells ● pump a solution of native ground water, usually mixed with sodium bicarbonate and oxygen, into the aquifer (ground water) containing uranium ore. The solution dissolves the uranium from the deposit in the ground and is then pumped back to the surface through recovery wells ●, all controlled by the header house. From there, it is sent to the processing plant. Monitoring wells ● ■ ▲ are checked regularly to ensure that injection solution is not escaping from the wellfield. Confining layers keep ground water from moving from one aquifer to another.

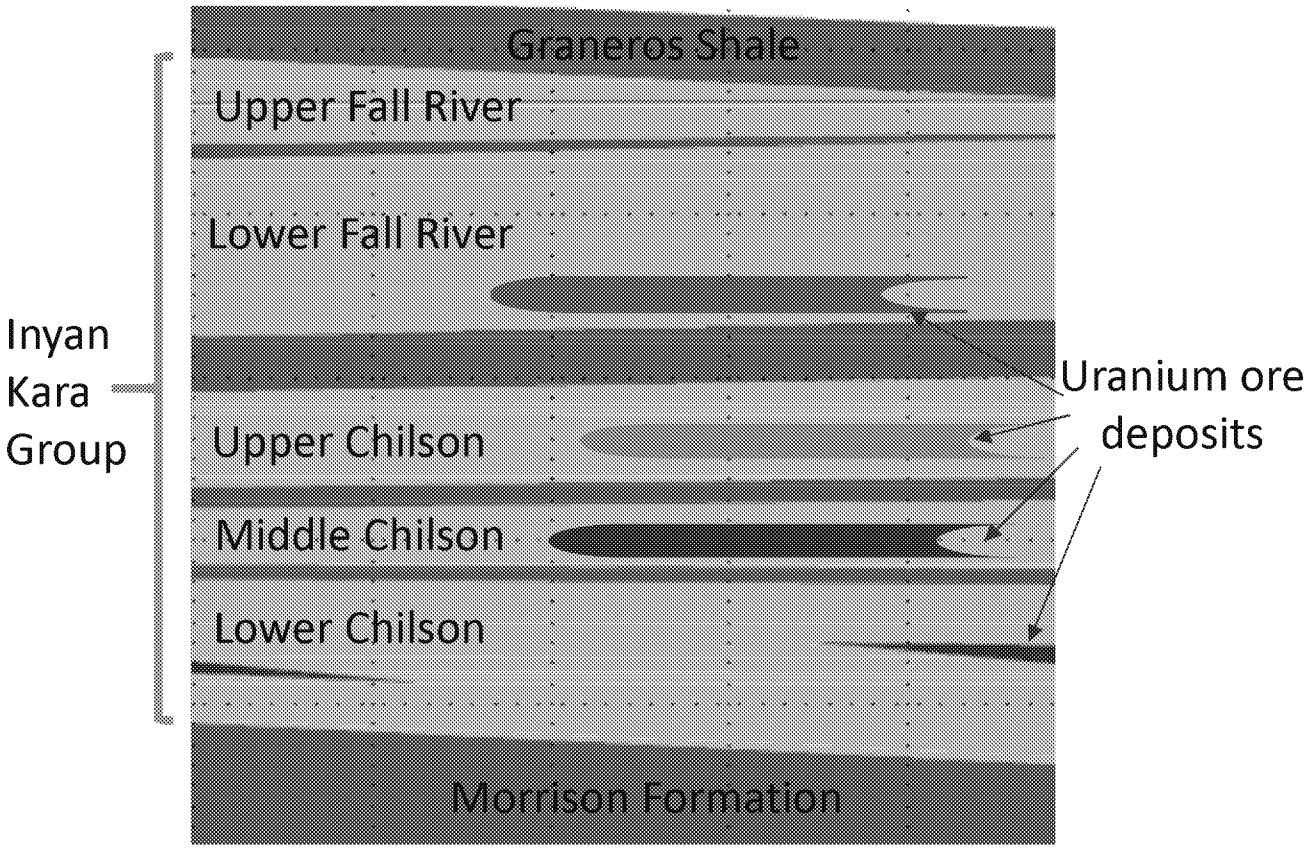
As of July 2016

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

Typical Wellfield Design and Aquifer Exemption Boundary



Locations of Uranium Ore Deposits at the Dewey-Burdock Site



Post-Restoration Monitoring